

**ABSTRACT**

A method for conveying digital data from a transmitter to a receiver includes specifying a spectral filtering profile to be applied in conveying the data. A sequence of input symbols is generated at the transmitter, corresponding to the data to be conveyed. The input symbols are precoded at the transmitter using Tomlinson-Harashima precoding responsive to the specified profile, so as to generate a corresponding sequence of precoded symbols. The precoded symbols are filtered in accordance with the specified profile. The precoded and filtered symbols are decoded at the receiver so as to recover the data therefrom.

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